OIPE IAP79
FEB 0 6 2006
PATENT & TRADEMARK OFFICE

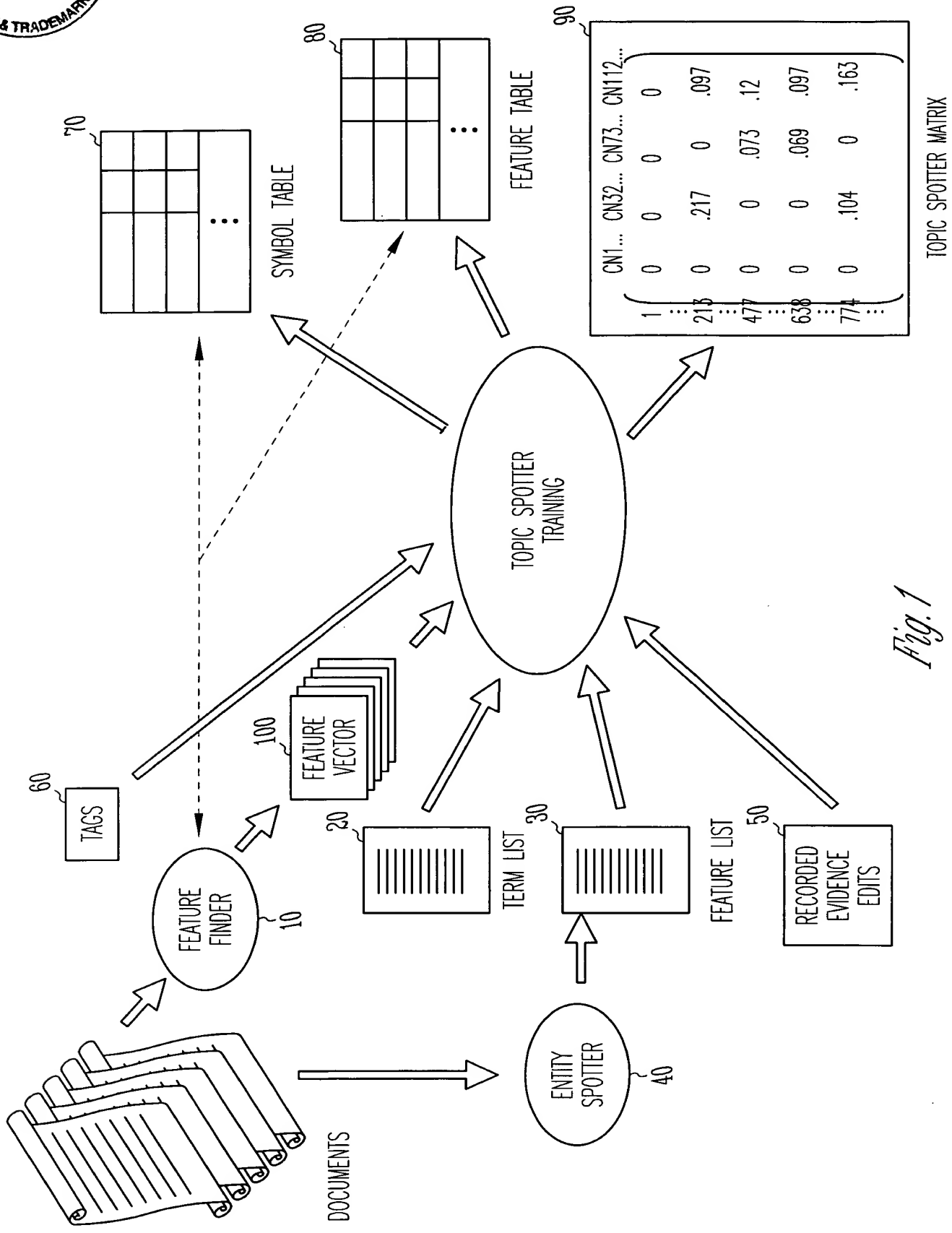

Fig. 1

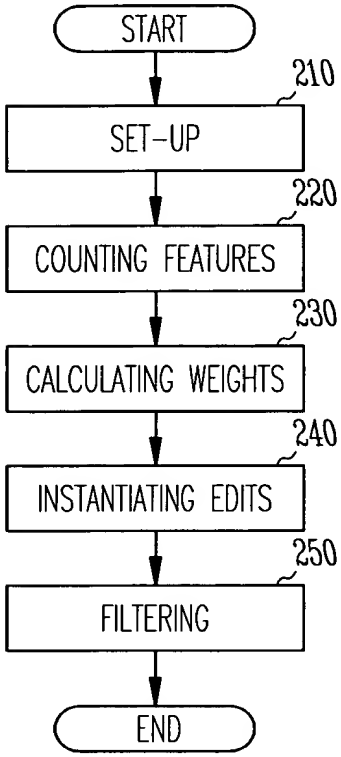
START
210
SET-UP
220
COUNTING FEATURES
230
CALCULATING WEIGHTS
240
INSTANTIATING EDITS
250
FILTERING
END

Fig.2

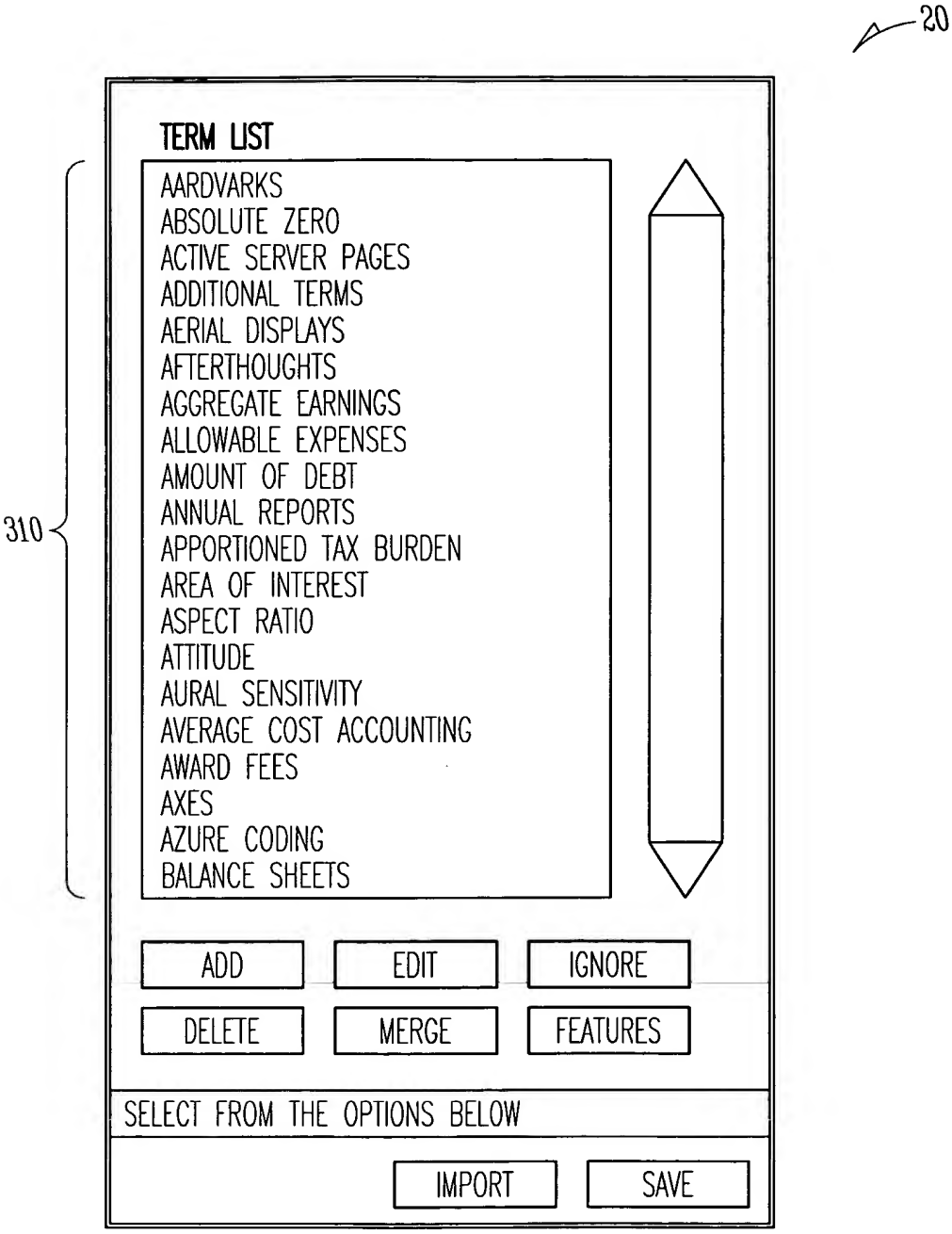
20
TERM LIST
AARDVARKS
ABSOLUTE ZERO
ACTIVE SERVER PAGES
ADDITIONAL TERMS
AERIAL DISPLAYS
AFTERTHOUGHTS
AGGREGATE EARNINGS
ALLOWABLE EXPENSES
AMOUNT OF DEBT
ANNUAL REPORTS
APPORTIONED TAX BURDEN
AREA OF INTEREST
ASPECT RATIO
ATTITUDE
AURAL SENSITIVITY
AVERAGE COST ACCOUNTING
AWARD FEES
AXES
AZURE CODING
BALANCE SHEETS
310
ADD
EDIT
IGNORE
DELETE
MERGE
FEATURES
SELECT FROM THE OPTIONS BELOW
IMPORT
SAVE

Fig. 3

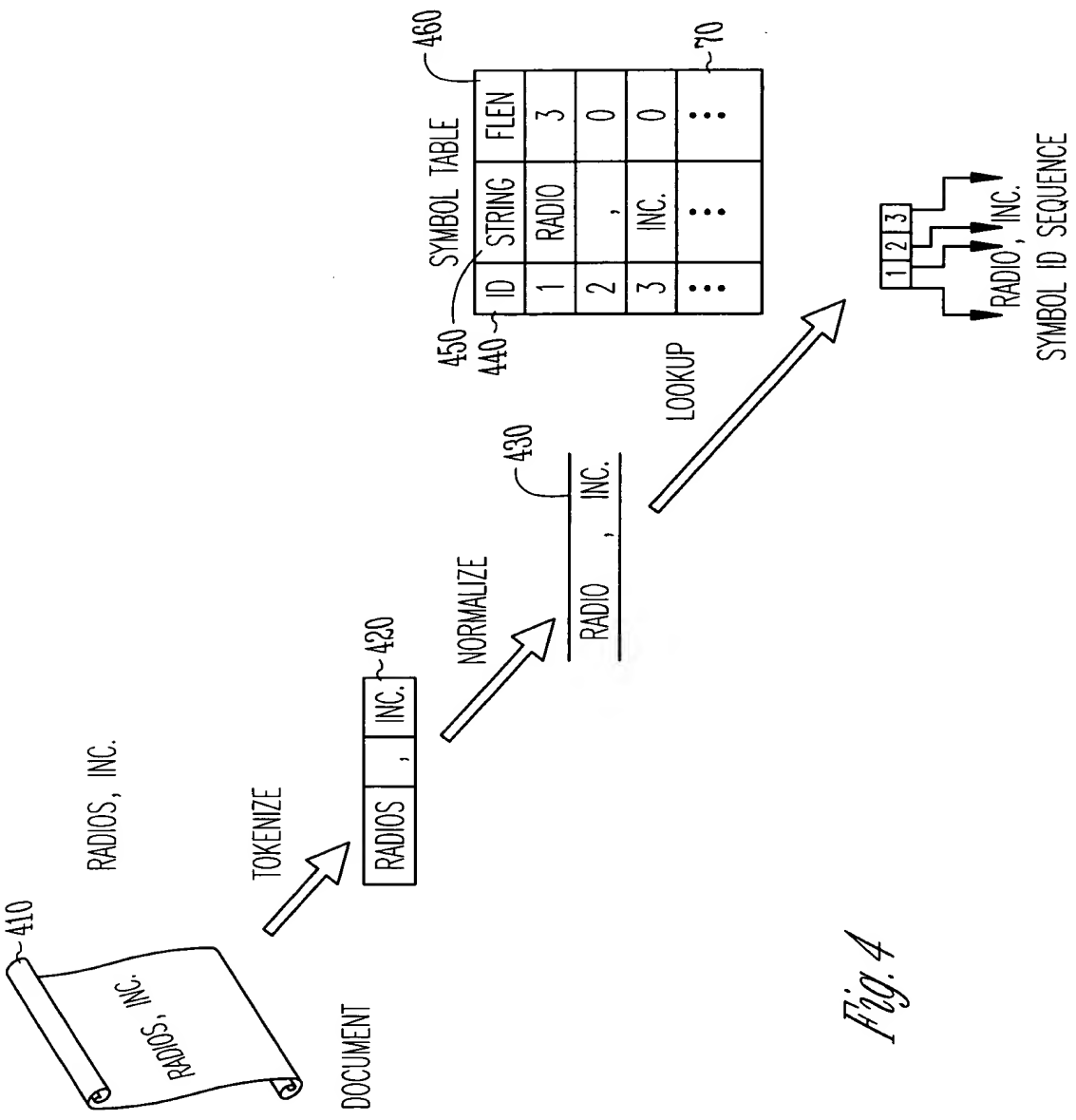
410
RADIOS, INC.
DOCUMENT
TOKENIZE
RADIOS
,
INC.
420
NORMALIZE
RADIO
,
INC.
430
LOOKUP
460
SYMBOL TABLE
ID
STRING
FLEN
1
RADIO
3
2
,
0
3
INC.
0
450
440
70
1 2 3
RADIO, INC.
SYMBOL ID SEQUENCE

Fig. 4

ID	STRING	FLEN
1	APPLE	3
2	,	0
3	INC.	0
33	SHELF	0
387	LIFE	0

510 FID	520 FEATURE	530 EXCEPTION STRING	540 EMBEDS	550 TYPE	560 TERM ID
1000	1,2,3	APPLES, INC.	YES	ORG	NO
1001	1	APPLE	NO	ORG	YES
1002	33,387		NO	TERM	NO
⋮	⋮	⋮	⋮	⋮	⋮

Fig. 5

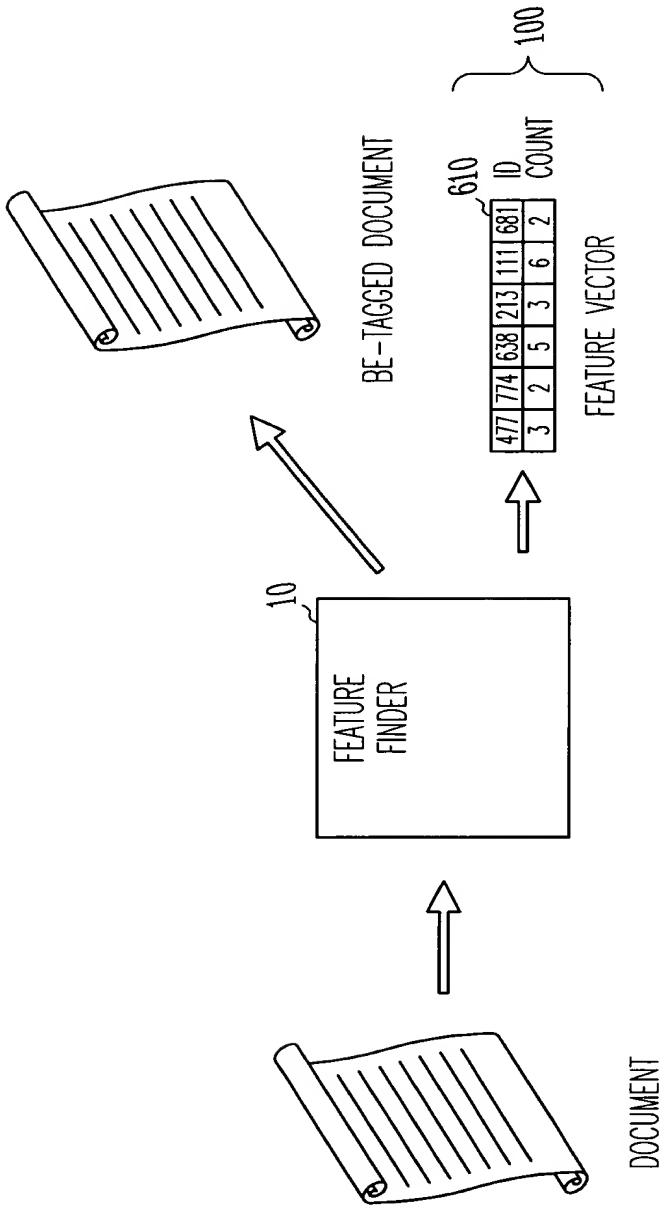
100
610
ID
COUNT
BE-TAGGED DOCUMENT
477 774 638 213 111 681
3 2 5 3 6 2
FEATURE VECTOR
10
FEATURE FINDER
DOCUMENT

Fig. 6

710	720	730	740	750	760
TERM ID	TAXONOMY NAME	CONCEPT SHORT NAME	GRANULARITY	FLAGS	WEIGHT
			CONCEPT		
			TAXONOMY		

Fig. 7

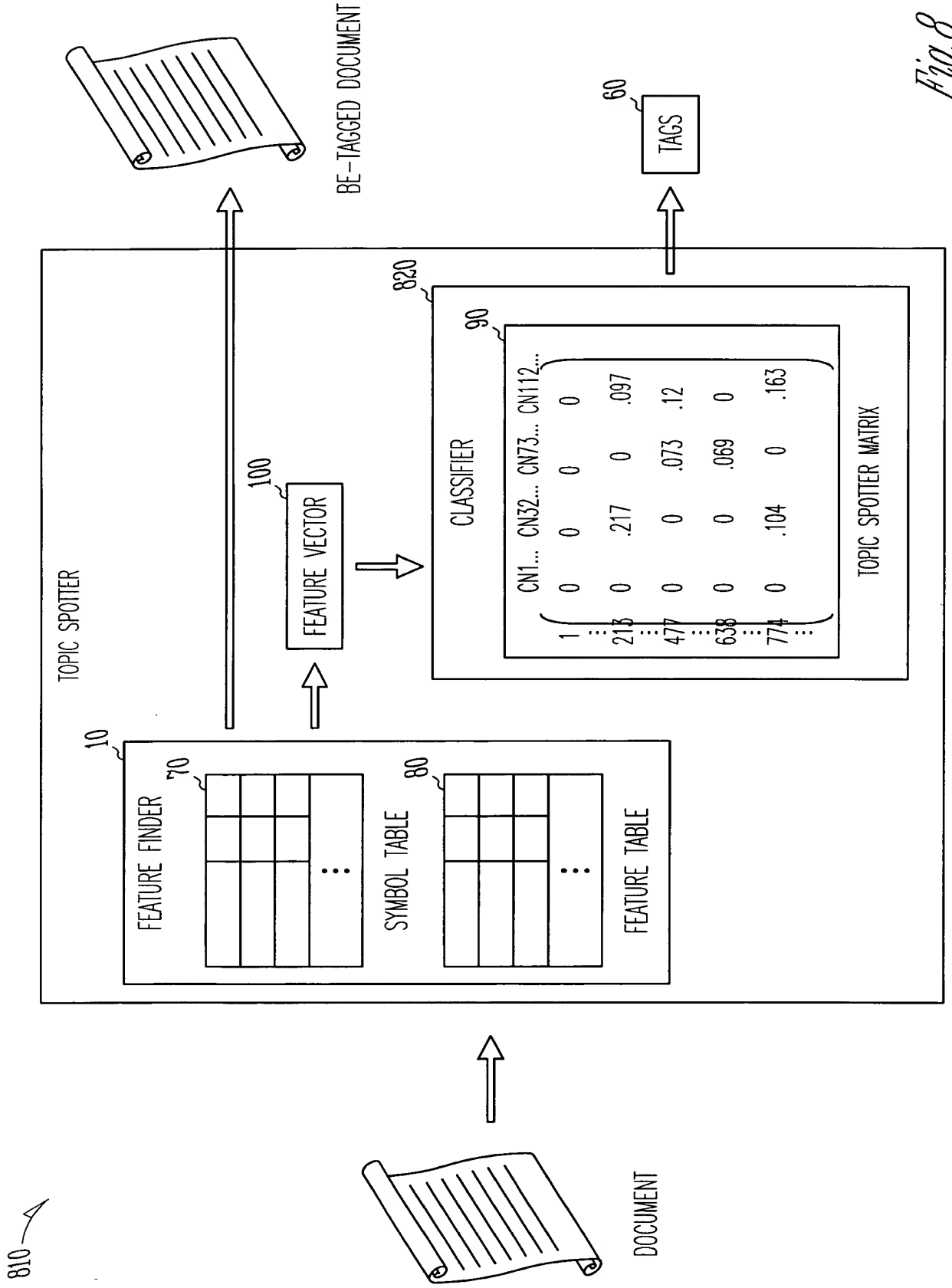
BE-TAGGED DOCUMENT
60
TAGS
820
90
CLASSIFIER
CN1... CN32... CN73... CN112...
1 0 0 0 0
213 0 .217 0 .097
477 0 0 .073 .12
638 0 0 .069 0
774 0 .104 0 .163
TOPIC SPOTTER MATRIX
100
FEATURE VECTOR
TOPIC SPOTTER
10
FEATURE FINDER
70
SYMBOL TABLE
80
FEATURE TABLE
DOCUMENT
810

Fig. 8

$$\begin{bmatrix} C_i \end{bmatrix} = \begin{bmatrix} W_{ij} \end{bmatrix} * \begin{bmatrix} f_j \end{bmatrix}$$

$$C_i = \sum W_{ij} * f_j$$

$$C = W * F$$

Fig. 9